integra 369 sch Class i retains	Lass 360 is considered to be an all part of Class 369 (see the Class medule for the position of this in schedule hierarchy). This Class all pertinent definitions and lines of Class 369.	28 29 30 31	RECORDING OR REPRODUCING AN INFORMATION SIGNAL AND A CONTROL SIGNAL FOR CONTROLLING ELECTRONICS OF REPRODUCER .Reference carrier to control demodulator MODULATING OR DEMODULATING .Frequency MONITORING OR TESTING THE PROGRESS OF RECORDING
1	RECORDING ON OR REPRODUCING FROM AN ELEMENT OF DIVERSE UTILITY	32	CONVERTING AN ANALOG SIGNAL TO DIGITAL FORM FOR RECORDING;
2	.Card	2.0	REPRODUCING AND RECONVERTING
3	.Motion picture film	39	GENERAL PROCESSING OF A DIGITAL
4	MANUAL INPUT RECORDING	4.0	SIGNAL
5	RECORDING FOR SELECTIVE RETENTION	40	.In specific code or form
	OF A SPECIAL OCCURRENCE	41	Nonreturn to zero
6	RECORDING COMBINED WITH METERING	42	Phase code
	OR SENSING	43	Multi-frequency
7	RECORDING FOR MONETARY DELAY OF	44	Intra-cell transition
	AN ANALOG SIGNAL	45	.Pulse crowding correction
8	RECORDING FOR CHANGING DURATION,	46	.Head amplifier circuit
	FREQUENCY OR REDUNDANT CONTENT	47	.Redundant or complimentary tracks
1.0	OF AN ANALOG SIGNAL	48	
12	RECORDING OR REPRODUCING FOR	49	.Data in specific format
1.0	AUTOMATIC ANNOUNCING		.Address coding
13	RECORD EDITING	50	.Inter-record gap processing
15	RECORD COPYING	51	.Data clocking
16	.Contact transfer	52	With incremental movement
17	With magnetic bias		between record and head
18	RECORDING OR REPRODUCING PLURAL	53	.Data verification
	INFORMATION SIGNALS ON THE	54	.Data recirculation
	SAME TRACK	55	GENERAL RECORDING OR REPRODUCING
20	.Frequency multiplex	57	.Selective erase recording
21	.Head gap azimuth multiplex	58	.Boundary displacement recording
22	SPLITTING ONE INFORMATION SIGNAL		or transducers
	FOR RECORDING ON PLURAL DISTINCT TRACKS OR REPRODUCING	59	.Thermomagnetic recording or transducers
	SUCH SIGNAL	60	.Recording-or erasing-prevention
23	.Time division	61	.Signal switching
24	SPLITTING, PROCESSING AND	62	Record-reproduce
	RECOMBINING ONE INFORMATION	63	Between plural stationary heads
	SIGNAL FOR RECORDING OR REPRODUCING ON THE SAME TRACK	64	Between heads in alternate
25	CHECKING RECORD CHARACTERISTICS	CF	engagement with medium
23	OR MODIFYING RECORDING SIGNAL	65	.Specifics of equalizing
	FOR CHARACTERISTIC	66 67	.Specifics of biasing or erasing
	COMPENSATION	67	.Specifics of the amplifier
26	ELECTRONICALLY CORRECTING PHASING	68	Recording amplifier
_ ~	ERRORS BETWEEN RELATED	69	AUTOMATIC CONTROL OF A RECORDER
	INFORMATION SIGNALS	ПО	MECHANISM
		70	<pre>.Synchronizing moving-head moving-record recorders</pre>
		71	.Controlling the record

72.1	Locating specific areas	77.15	Plural pilot signals along
72.2	Responsive to recorded address		single transverse path
72.3	Responsive to tape transport	77.16	Having head deflection drive
73.01	Speed		<pre>(e.g., piezoelectric bimorph)</pre>
73.02	Control of relative speed	77.17	Dithering
	between carriers	78.01	Track changing
73.03	Rotary carrier	78.02	Tape
73.04	Linear carrier	78.03	Plural tapes
73.05	Plural speed transport	78.04	For rotary carrier (e.g.,
73.06	Automatic change between	, 0 . 0 1	disc)
73.00	fixed speeds	78.05	Coarse and fine head drive
73.07	Automatic selection of	, 0.05	motors
73.07	carrier or track speed	78.06	Specified velocity pattern
73.08	Variable speed	70.00	during access
73.08	-	78.07	Controlled by memory device
	Constant speed	78.08	
73.11	By reproduced control signal and transport derived signal	70.00	<pre>Specified spatial pattern during access</pre>
73.12	By reproduced control signal	78.09	Including model of servo
73.13	From separate track		system or element
73.14	By signal derived from	78.11	Including nonmagnetic
	transport		position sensing
74.1	Stopping or reversing	78.12	Including particular head
74.2	Responsive to reel rotation		actuator
74.3	Responsive to tape tension	78.13	Stepping motor
74.4	Responsive to magnetic	78.14	By recorded servo reference
	recorded signals		or address signal
74.5	Demonstra to observe	78.15	D
/4.5	Responsive to physical	70.13	Drum
74.5	Responsive to physical property of record	76.15 79	RECORDER CONTROL OF AN EXTERNAL
74.5	property of recordPhotoelectric		
	property of record		RECORDER CONTROL OF AN EXTERNAL
74.6	<pre>property of recordPhotoelectricConductive</pre>	79	RECORDER CONTROL OF AN EXTERNAL DEVICE
74.6 74.7	<pre>property of recordPhotoelectricConductive .Controlling the head</pre>	79 80	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors
74.6 74.7 75 76	property of recordPhotoelectricConductive .Controlling the headAzimuth or skew	79 80	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING
74.6 74.7 75 76 77.01	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centering	79 80 81	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record
74.6 74.7 75 76 77.01 77.02	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrier	79 80 81 82 83	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record
74.6 74.7 75 76 77.01	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g.,	79 80 81 82 83 84	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape recordRotating head
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)	79 80 81 82 83 84 85	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record
74.6 74.7 75 76 77.01 77.02	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of	79 80 81 82 83 84 85 86	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Tape in container .Disk record
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correction	79 80 81 82 83 84 85 86 87	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Rotating head Tape in container .Disk record .Drum record
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component	79 80 81 82 83 84 85 86	RECORDER CONTROL OF AN EXTERNAL DEVICE Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING Belt record Tape record Record in container Disk record Drum record RECORD TRANSPORT WITH HEAD
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate	79 80 81 82 83 84 85 86 87 88	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal	79 80 81 82 83 84 85 86 87 88	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record
74.6 74.7 75 76 77.01 77.02 77.03 77.04	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surface	79 80 81 82 83 84 85 86 87 88	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape recordRotating headTape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record
74.6 74.7 75 76 77.01 77.02 77.03	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used	79 80 81 82 83 84 85 86 87 88	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Tape record
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for tracking	79 80 81 82 83 84 85 86 87 88 89 90 91 92	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Tape record .Tape record
74.6 74.7 75 76 77.01 77.02 77.03 77.04	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container .Tape in container
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath	79 80 81 82 83 84 85 86 87 88 89 90 91 92	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Tape record .Tape in container Tape in container Tape in container
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surface	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container Tape in container Transport accommodates different types
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surfaceDistinct servo sector	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container Transport accommodates different types With tape extraction
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05 77.06 77.10	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surfaceDistinct servo sectorContinuous servo signal	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96.1	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container Transport accommodates different types With tape extraction Plural reels
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surfaceDistinct servo sectorContinuous servo signalElongated web carrier (i.e.,	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96.1 96.2	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container Tape in container Transport accommodates different types With tape extraction Plural reels With dual capstan drive
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05 77.06 77.107	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surfaceDistinct servo sectorContinuous servo signalElongated web carrier (i.e., tape)	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96.1 96.2 96.3	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Plural tapes Tape in container Tape in container Transport accommodates different types With tape extraction Plural reels With dual capstan drive Reel drive details
74.6 74.7 75 76 77.01 77.02 77.03 77.04 77.05 77.06 77.10	property of recordPhotoelectricConductive .Controlling the headAzimuth or skewTrack centeringRotary carrierBy nonmagnetic sensing (e.g., optical, capacitive)By memory storage of repeatable error or correctionBy servo signal component from carrier surface separate from information signal bearing surfaceReproduced data signal used for trackingBy tracking signal recorded on or immediately beneath surfaceDistinct servo sectorContinuous servo signalElongated web carrier (i.e.,	79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96.1 96.2	RECORDER CONTROL OF AN EXTERNAL DEVICE .Slide or movie projectors RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING .Belt record .Tape record .Rotating head Tape in container .Disk record .Drum record RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING .Wire record .Tape record .Plural tapes Tape in container Tape in container Transport accommodates different types With tape extraction Plural reels With dual capstan drive

06.6	*****	225 5	
96.6	With pivotal holder	235.5	Negative pressure type
97.01	.Disk record	235.6	Leading end detail
97.02	Environmental control (e.g.,	235.7	Trailing end detail
	air filter, temperature	235.8	Rail surface detail
	control)	235.9	Rail side edge detail
97.03	Plural disks	236	Cross rail detail
97.04	Flexible disk	236.1	Varying width rail
98.01	Plural disks	236.2	Asymmetrical rail
98.02	Axially fixed flexible disks		arrangement
98.03	With pneumatic partioning of	236.3	Three or more rails/pads
	disks	236.4	Leading end detail
98.04	Changer	236.5	Trailing end detail
98.05	Control detail	236.6	Rail surface detail
98.06	Mechanical detail	236.7	Rail side edge detail
98.07	Rotational drive detail	236.8	Varying width rail
98.08	Seating of disks	236.9	Asymmetrical rail arrangement
99.01	Flexible disk	237	Three or more rails/pads
99.02	Loading or ejecting mechanism	237.1	Partial contact
99.03	Motorized	240	HEAD MOUNTING
99.04	Rotational drive detail	250	.For moving head into/out of
99.05	Disk seating		transducing position
99.06	Loading or ejecting mechanism	251	Tape record having arcuate head
99.07	Motorized		retraction movement
99.08	Rotational drive detail	251.1	Tape record having linear head
99.09	Movable drive		retraction movement
99.11	Stationary drive	251.2	Driven by tape driver
99.12	Disk seating	251.3	Cam type
100.1	.Drum record	251.4	Solenoid type
100.1 101	.Drum record HEAD TRANSPORT WITH RECORD	251.4 251.5	Solenoid type Rotary head type
	HEAD TRANSPORT WITH RECORD	251.5	Rotary head type
101	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING	251.5 254	Rotary head type Disk record
101 220	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record	251.5 254 254.1	<pre>Rotary head typeDisk recordFlexible diskArcuate track change type</pre>
101 220 221	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT	251.5 254 254.1 254.2	Rotary head type Disk record Flexible disk
101 220 221 221.1	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape recordLiquid bearing	251.5 254 254.1 254.2 254.3	<pre>Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifter</pre>
101 220 221 221.1 224	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape recordLiquid bearing .Disk record	251.5 254 254.1 254.2 254.3 254.4	<pre>Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detail</pre>
101 220 221 221.1 224 230	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT	251.5 254 254.1 254.2 254.3 254.4 254.5	<pre>Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detail</pre>
101 220 221 221.1 224 230 231	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detail
101 220 221 221.1 224 230 231 234 234.1	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detail
101 220 221 221.1 224 230 231 234	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible disk	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detailAdjustment detail
101 220 221 221.1 224 230 231 234 234.1 234.2 234.3	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible disk .Air bearing slider detail	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detailAdjustment detailActuator side detail
101 220 221 221.1 224 230 231 234 234.1 234.2	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible disk	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detailAdjustment detailActuator side detailActuator side detail
101 220 221 221.1 224 230 231 234.2 234.3 234.3	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible disk .Air bearing slider detailIC/circuit component on sliderElectrical attachment of	251.5 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255.1 255.2	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailFixed lifterLifter surface detailActuator side detailAdjustment detailAdjustment detailActuator side detailActuator side detailActuator side detailActuator side detailLinear track change typeMoving lifter
101 220 221 221.1 224 230 231 234.2 234.3 234.3	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible disk .Air bearing slider detailIC/circuit component on sliderElectrical attachment of slider/head	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255.1 255.2 255.3	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailFixed lifterLifter surface detailAdjustment detailAdjustment detailAdjustment detailActuator side detailActuator side detailLifter surface detailLinear track change typeMoving lifterLifter surface detail
101 220 221 221.1 224 230 231 234 234.1 234.2 234.3 234.4 234.5	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearingFlexible diskAir bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255.1 255.2 255.3 255.4	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detailAdjustment detailAdjustment detailAdjustment detailActuator side detailActuator side detailActuator side detailLinear track change typeMoving lifterLifter surface detailAdjustment detail
101 220 221 221.1 224 230 231 234 234.1 234.2 234.3 234.4 234.5	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearingFlexible diskAir bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its support	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255 255.1 255.2 255.3 255.4 255.5	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailAdjustment detailActuator side detailActuator side detailLinear track change typeMoving lifterLifter surface detailLifter surface detailAdjustment detailActuator side detail
101 220 221 221.1 224 230 231 234 234.1 234.2 234.3 234.4 234.5	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Disk record .Liquid bearing .Flexible diskAir bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its supportHead attachment to slider	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255 255.1 255.2 255.3 255.4 255.5	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailActuator side detailAdjustment detailAdjustment detailActuator side detailActuator side detailLinear track change typeMoving lifterLifter surface detailLifter surface detailAdjustment detailActuator side detailActuator side detailFixed lifter
101 220 221 221.1 224 230 231 234 234.1 234.2 234.3 234.4 234.5 234.6 234.7 234.8	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Liquid bearing .Flexible disk .Air bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its supportHead attachment to sliderOn/in side of slider	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255.1 255.2 255.1 255.2 255.4 255.5	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailAdjustment detailAdjustment detailAdjustment detailAdjustment detailActuator side detailActuator side detailLinear track change typeMoving lifterLifter surface detailAdjustment detailAdjustment detailActuator side detailAtuator side detailActuator side detailActuator side detail
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101 220 221 221.1 224 230 231 234.2 234.3 234.4 234.5 234.6 234.7 234.8 234.9	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Liquid bearing .Flexible disk .Air bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its supportHead attachment to sliderOn/in side of slider	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255 255.1 255.2 255.3 255.4 255.5 255.7 255.8 255.9	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailFixed lifterLifter surface detailAdjustment detailAdjustment detailActuator side detailActuator side detailLinear track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailActuator side detailActuator side detailActuator side detailAdjustment detailAdjustment detailActuator side detail
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101 220 221 221.1 224 230 231 234.2 234.3 234.4 234.5 234.6 234.7 234.8 234.9 235	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Liquid bearingFlexible diskAir bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its supportHead attachment to sliderOn/in side of sliderIn slot of railSignal winding mount/access detailSlider materialRail material	251.5 254 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255 255.1 255.2 255.3 255.4 255.5 255.6 255.7 255.8 255.7 255.8 256.1 256.1 256.2	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailLifter surface detailAdjustment detailAdjustment detailAdjustment detailActuator side detailActuator side detailActuator side detailLifter surface detailLifter surface detailAdjustment detailActuator side detailActuator side detailActuator side detailActuator side detailAdjustment detailAdjustment detailActuator side detailAdjustment detailActuator side detailActuator side detailActuator side detailAir vaneMagnetic
101 220 221 221.1 224 230 231 234.1 234.2 234.3 234.4 234.5 234.6 234.7 234.8 234.9 235	HEAD TRANSPORT WITH RECORD STATIONARY DURING TRANSDUCING FLUID BEARING RECORD SUPPORT .Tape record .Liquid bearing .Disk record FLUID BEARING HEAD SUPPORT .Tape record .Liquid bearing .Flexible disk .Air bearing slider detailIC/circuit component on sliderElectrical attachment of slider/headMechanical attachment of slider to its supportHead attachment to sliderOn/in side of sliderIn slot of railSignal winding mount/access detailSlider material	251.5 254.1 254.2 254.3 254.4 254.5 254.6 254.7 254.8 254.9 255.1 255.2 255.3 255.4 255.5 255.6 255.7 255.8 255.9 256.1	Rotary head typeDisk recordFlexible diskArcuate track change typeMoving lifterLifter surface detailAdjustment detailFixed lifterLifter surface detailAdjustment detailAdjustment detailAdjustment detailAdjustment detailActuator side detailLinear track change typeMoving lifterLifter surface detailAdjustment detailActuator side detailActuator side detailActuator side detailActuator side detailLifter surface detailAdjustment detailActuator side detailAir vane

256 5	Dlancel lately a	270	Day marks a band durks
256.5	Plural latches	270	.For moving head during
256.6	Adjustment detail	071	transducing
260	.For shifting head between tracks	271	Tape record having rotary head
261	Tape record having rotary head	271.1	Rotating drum
061 1	movement	271.2	Axle bearing
261.1	Tape record having linear head	271.3	Hydrodynamic
0.61 0	movement	271.4	Axle seal
261.2	Cam	271.5	Head mount to drum
261.3	Screw	271.6	Drum mounting
264	Disk record	271.7	Drum motor
264.1	Arcuate head movement	271.8	Stationary drum
264.2	Electrical connection detail	271.9	Electrical connection detail
	onto actuator arm	272	Power supply
264.3	Driver detail	281	Signal transfer to/from head
264.4	Independent head movement	281.1	Transformer mounting detail
264.5	Plural drivers for each head	281.2	Transformer axis parallel to
264.6	Band		axis of head rotation
264.7	Voice coil	281.3	Transformer axis
264.8	Core detail		perpendicular to axis of head
264.9	Magnet detail		rotation
265	Winding detail	281.4	Coil/winding detail
265.1	Limiter/stop	281.5	Core detail
265.2	Bearing	281.6	Electrical or magnetic
265.3	Seal		shielding
265.4	Radial	281.7	Electrical connection between
265.5	Thrust		head and rotary part of
265.6	Mounting detail		transformer
265.7	E block detail	281.8	Plural transformers
265.8	Detail of coil support	281.9	Photoelectric
265.9	Detail of actuator arm	282	Contact type transformer
	supporting head suspension	274	Disk record
266	Arm shape	290	.For adjusting head position
266.1	Arm mounting	291	Tape record
266.2	Linear head movement	291.1	Cam adjuster
266.3	Electrical connection detail	291.2	Screw adjuster
200.5	onto actuator arm	291.3	Plural screws
266.4	Voice coil	291.4	Rotary head
266.5	Carriage detail	291.5	Adjustment of drum axis
266.6	Guide detail	291.6	Adjustable head mount
266.7	Core detail	291.7	Adjuster core detail
266.8	Magnet detail	291.8	Adjuster coil detail
266.9	_	291.9	Piezoelectric adjuster
266.9	Winding detail	292	Plural piezoelectric
	Band	272	adjusters
267.1	Cam	294	Disk record
267.2	Rack	294.1	Adjustment parallel to disk
267.3	Screw	294.1	plane
267.4	Screw/follower detail	294.2	_
267.5	Carriage detail		Linear adjustmentDriver detail
267.6	Guide detail	294.3	
267.7	Screw mount detail	294.4	Piezoelectric adjuster
267.8	Adjustable	294.5	Voice coil adjuster
267.9	Including shifting head to	294.6	Pivot structure detail
	different disks	294.7	Adjustment along rotational
			axis of disk

241	.Tape record	317	Combined with inductive write
241.1	Plural head mounting on only one tape side		head in piggyback/merged configuration
241.2	Plural head mounting on	318	Combined with inductive write
211.2	opposite tape sides	323	head and having MR inside of
241.3	Head urging detail		inductive head
244	.Disk record	318.1	In horizontal head
244.1	IC/circuit component on	310.1	configuration
244.I	suspension element	319	Detail of magnetic shielding
244.2	Load beam detail	320	Detail of head insulation
		321	Having flux quide detail
244.3	Laminated beam	321	Detail of sense conductor
244.4	Nonmetallic beam	323	Electrostatic Discharge (ESD)
244.5	Actuator mount region detail	343	protection
244.6	Ball staking	324	-
244.7	Adhesive	324	Having Giant Magnetoresistive
244.8	Spring region detail		(GMR) or Colossal
244.9	Rigid intermediate section detail		Magnetoresistive (CMR) sensor formed of multiple thin films
245	Gimbal mounting region detail	324.1	Having one film pinned (e.g.,
245.1	Pivot/load button detail		spin valve)
245.2	Assembly feature	324.11	Detail of pinned film or
245.3	Gimbal detail		additional film for affecting
245.4	Attachment detail		or biasing the pinned film
245.5	Integral with load beam	324.12	Detail of free layer or
245.6	Plural axis components		additional film for affecting
245.7	Motion limiter detail		or biasing the free layer
245.8	Electrical connection detail	324.2	Having tunnel junction effect
245.9	Flexible printed circuit type	325	Having Anisotropic
246	Noise reduction		Magnetoresistive (AMR) sensor
246.1	Full contact suspension		formed of multiple thin films
246.2	Slider detail	326	Having Giant Magnetoresistive
246.3	Pivot detail		(GMR) or Colossal
246.4	Gimbal detail		Magnetoresistive (CMR) sensor
246.5	Single head		formed of a single thin film
246.6	Plural heads for each disk side	327	Having Anisotropic
246.7	Plural actuators		Magnetoresistive (AMR) sensor
246.8	Offset heads on opposite sides		formed of a single thin film
240.0	of disk	327.1	Detail of transverse and
110	HEAD	205 11	longitudinal biasing
111	.Flux gate	327.11	In barber-pole configuration
112	.Hall effect	327.2	Detail of transverse biasing
313		327.21	Using a shunt
313	.Magnetoresistive (MR) reproducing head	327.22	Using a soft adjacent layer
214	_	327.23	Using a permanent magnet
314	Having multiple interconnected multiple film MR sensors	327.24	Using conductor
	(e.g., dual spin valve	327.3	Detail of longitudinal biasing
	magnetoresistive sensor)	327.31	Using a permanent magnet
315	Having multiple interconnected	327.32	Using exchange couple biasing
313	single film MR sensors (e.g.,	327.33	Using conductor
	dual magnetoresistive sensor)	328	.Magnetostrictive head
316	Having multiple independent MR	114.01	.Read only detector using light
	sensors		for reading magnetically
			recorded information on tape
		114.02	Light beam generator detail
		114.03	Focus detail

114.04 114.05 114.06	Beam splitter detailReadout detector detailFocus detail	FOREIGN ART COLLECTIONS
114.07	Circuit detail	FOR 000 CLASS-RELATED FOREIGN DOCUMENTS
114.08 114.09 114.1 115 116 117 118 119 120 121 122 123	Detector material detailMounting detailRotary head .Flux scanning .Cathode ray .Hand-held .Erase .Gap structure detailsSpacer materialPlural gaps .Head surface structure .Head winding	Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collection listed below. These collections contain ONLY foreign patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.
124 125 126	For cross-talk prevention.Head coreLaminated	FOR 202 FLUID BEARING HEAD (360/102) FOR 203 .Flying head (360/103)
127 128 129	Nonmetallic .Head accessoryHousing	FOR 204 HEAD MOUNTING (360/104) FOR 205 .For moving head into and out of transducing position (360/105)
130.1	Record separator	FOR 206 .For shifting head between tracks (360/106)
130.2 130.21 130.22	<pre>Record guideTape recordRotating head</pre>	FOR 207 .For moving head during transducing (360/107)
130.23	Helical scan	FOR 208Signal transfer to and from head (360/108)
130.24	Head drum detailsPressure element	FOR 209 .For adjusting head position (360/109)
130.31 130.32 130.33	Tape recordElement mounting detailsElement in tape container	FOR 213 MAGNETORESISTIVE OR MAGNETOSTRICTIVE HEAD (360/ 113)
130.34 131	Disc record RECORD MEDIUM	HEAD (340/110) FOR 214 .Magneto optic (360/114)
132 133 134	.In containerFor disk .Tape	101. 211 .magneto opete (300/114)
135 136	.Disk .Drum	
137	MISCELLANEOUS	

CROSS-REFERENCE ART COLLECTIONS

900	DISK DRIVE PACKAGING
901	.Access time
902	.Storage density (e.g., bpi, tpi)
903	.Physical parameter (e.g., form
	factor)
904	Weight